|  | 10/680,233<br>Examiner |          |               |                  |          |          |          |              |          |                             |            |        |          |          |                     |           |          |              |             | HAMANN ET AL. |          |          |          |              |          |            |          |           |          |          |          |          |          |               |           |  |                |
|--|------------------------|----------|---------------|------------------|----------|----------|----------|--------------|----------|-----------------------------|------------|--------|----------|----------|---------------------|-----------|----------|--------------|-------------|---------------|----------|----------|----------|--------------|----------|------------|----------|-----------|----------|----------|----------|----------|----------|---------------|-----------|--|----------------|
|  |                        |          |               |                  |          |          |          |              |          |                             |            |        |          |          |                     |           |          |              |             |               |          |          |          |              | ĺ        | Art Unit   |          |           |          |          |          |          |          | •             |           |  |                |
|  | Bor                    |          |               |                  |          |          |          |              |          |                             |            |        |          |          | Boris L. Chervinsky |           |          |              |             |               |          |          |          |              |          | 2835       |          |           |          |          |          |          |          |               | <u>:</u>  |  |                |
|  |                        |          | 1             | Rejected Allowed |          |          |          | [-           |          | (Through numer<br>Cancelled |            |        |          |          |                     | al)       |          |              | Non-Elected |               |          |          | A        | Appeal       |          |            |          |           |          |          |          | •        |          |               |           |  |                |
|  |                        |          | =             |                  |          |          |          | ÷            |          |                             | Restricted |        |          |          |                     |           | 1        | Interference |             |               |          | 0        | Objected |              |          |            | d        |           |          |          | •        | •        |          |               |           |  |                |
|  | Cla                    | aim      | ш<br>Г        | Date             |          |          |          |              |          | _                           |            | <br>]: | Claim    |          |                     |           |          |              | ate         |               |          |          |          |              | Cli      | aim        | <br>     |           | Date     |          |          |          |          | $\overline{}$ |           |  |                |
|  |                        |          | 40            |                  |          |          |          |              |          |                             |            |        |          |          |                     |           |          |              |             |               |          |          |          |              |          |            |          | -         |          |          |          |          |          |               | ٦         |  |                |
|  | Final                  | Original | 9/29/04       |                  |          |          |          |              |          |                             | :          |        | Final    | Original |                     |           |          |              |             |               |          |          |          |              | Final    | Original   |          |           |          |          |          |          |          |               |           |  |                |
|  |                        | 1        | Υ             |                  |          | F        | F        | L            | L        |                             |            | 1      |          | 51       |                     |           |          |              |             |               |          |          |          |              |          | 101        |          |           |          |          |          |          |          | 1             | $\exists$ |  |                |
|  | -                      | 3        | $\mathbf{H}$  | _                | -        | ╁        | ╁        | ╁            | $\vdash$ | ┢                           | _          | -      |          | 52<br>53 | ┢                   |           |          | $\dashv$     | -           | -             | $\dashv$ |          | $\dashv$ |              |          | 102<br>103 | -        | -         |          | _        | -        |          | $\dashv$ | +             | $\dashv$  |  |                |
|  |                        | 4        |               |                  | 匚        |          |          |              |          |                             |            |        |          | 54       |                     |           |          |              |             |               |          |          |          |              |          | 104        |          |           |          |          |          |          |          |               |           |  |                |
|  |                        | 5        | Н             | _                | $\vdash$ | ╀        | -        | <del> </del> | <u> </u> | -                           |            | -      |          | 55<br>56 | ļ                   | Ш         |          |              | _           |               | _        | 4        | _        | •            |          | 105        | _        |           | 4        |          |          |          | 4        |               | 4         |  |                |
|  |                        | 7        | H             | -                | -        | ┢        | -        | $\vdash$     | -        | ┢                           | -          |        |          | 57       | -                   | -         |          | $\dashv$     | -           |               | $\dashv$ | -        | $\dashv$ |              |          | 106<br>107 | -        |           | $\dashv$ | -        |          | -        | $\dashv$ | +             | -         |  |                |
|  |                        | 8        | Ц             |                  |          | L        |          |              |          |                             |            |        |          | 58       |                     |           |          |              |             |               |          |          |          | . 0          |          | 108        |          |           |          |          |          |          |          |               |           |  |                |
|  |                        | 9        | 1             |                  | Ļ        | <u> </u> | L        | 丨            | _        |                             |            | 1.     |          | 59       | ļ                   |           |          |              | _           |               | _        |          | 4        | 1            |          | 109        | Ш        |           | _        | $\dashv$ | _        |          | $\Box$   |               |           |  |                |
|  | -                      | 10<br>11 | ${\mathbb H}$ |                  | ╁        | -        | ┝        | $\vdash$     | H        | $\vdash$                    | -          |        |          | 60<br>61 |                     |           |          | $\dashv$     | _           |               | $\dashv$ |          | $\dashv$ | . (          |          | 110<br>111 | $\vdash$ |           | $\dashv$ |          | -        | -        |          | +             | -         |  |                |
|  |                        | 12       |               |                  | L        | T        |          |              |          |                             |            |        |          | 62       |                     |           |          |              |             |               |          |          |          | , i          |          | 112        |          |           |          |          |          |          |          |               | _         |  |                |
|  |                        | 13       | lacksquare    |                  |          | L        | L        | _            | L        |                             | _          | ļ.,    |          | 63       |                     |           |          |              |             |               |          |          |          |              |          | 113        |          |           |          |          | Ц        |          | $\Box$   | $\perp$       |           |  |                |
|  | -                      | 14<br>15 | ⊬             |                  | ╁        | -        | ╁        | ╁            | ┝        | ┢                           |            | -      | $\vdash$ | 64<br>65 | -                   |           |          |              | $\dashv$    |               | -        |          | $\dashv$ |              |          | 114<br>115 | $\vdash$ | -         | $\dashv$ | _        | $\dashv$ | _        | $\dashv$ | -             | $\dashv$  |  | •              |
|  |                        | 16       |               |                  |          |          |          |              |          | T                           |            |        |          | 66       |                     |           |          |              |             |               |          |          |          |              |          | 116        |          |           |          | $\dashv$ |          |          | $\top$   |               | 7         |  |                |
|  |                        | 17       |               |                  | <u> </u> | L        | _        | ļ            |          |                             |            | ]      |          | 67       |                     |           |          |              |             |               |          |          |          |              |          | 117        |          |           |          |          |          |          |          |               |           |  |                |
|  | -                      | 18<br>19 | ╟             |                  | -        | -        | ╁        | ╁            | ⊢        | ⊢                           | $\vdash$   | -      | -        | 68<br>69 | $\vdash$            |           |          |              |             |               |          | -        | $\dashv$ | 4            | -        | 118<br>119 | $\vdash$ |           | $\dashv$ | .        | -        | -        | +        | +             | $\dashv$  |  |                |
|  |                        | 20       | H             |                  | +        | $\vdash$ | $\vdash$ | +            | H        | $\vdash$                    | H          | 1      |          | 70       |                     |           |          |              |             |               |          | $\dashv$ |          |              | _        | 120        |          |           | -        | +        | •        | $\dashv$ | $\top$   | +             | -         |  |                |
|  |                        | 21       |               |                  |          |          |          |              |          |                             |            | di.    |          | 71       |                     |           |          |              |             |               |          |          |          | e .<br>Çije  |          | 121        |          |           |          |          |          |          |          |               |           |  |                |
|  |                        | 22       | Н             |                  | ┝        | ┝        | ┝        | ╀            | ┝        | ┢                           | H          |        | <u> </u> | 72<br>73 |                     |           |          | -            | $\dashv$    |               |          | $\dashv$ |          |              |          | 122<br>123 | H        |           | $\dashv$ | -        | $\dashv$ | _        | $\dashv$ | -+-           | 4         |  |                |
|  |                        | 24       |               |                  | -        | ┝        | -        | ╁            | ┢        | +-                          | -          |        |          | 74       | -                   | -         | $\dashv$ | _            | $\dashv$    |               | $\dashv$ | $\dashv$ |          | - 2          |          | 124        | Н        |           | $\dashv$ | -        | -        | -        | $\dashv$ | +             | ┪         |  |                |
|  |                        | 25       |               |                  |          |          |          | 匚            |          |                             |            |        |          | 75       |                     |           |          |              |             |               |          |          |          | :            |          | 125        |          |           |          |          |          |          |          |               |           |  |                |
|  | -                      | 26<br>27 | ],            |                  | ┞        | <u> </u> | L        | ╀            | <u> </u> | <u> </u>                    |            |        | <u> </u> | 76       |                     | _         |          | _            | 4           |               |          |          | _        |              |          | 126        | Ш        |           | _        | 4        | _        | $\dashv$ | -        | $\perp$       | 4         |  | •              |
|  | -                      | 28       | *             | -                | ┝        | ┝        | ┢        | ╁            | ┝        | $\vdash$                    | -          | 4      | -        | 77<br>78 | -                   |           | $\dashv$ | $\dashv$     | ᅱ           |               | -        | $\dashv$ | $\dashv$ | - 7          |          | 127<br>128 | Н        |           | -        | $\dashv$ | -        | ᅱ        | $\dashv$ | +             | $\dashv$  |  |                |
|  |                        | 29       |               |                  |          |          |          |              |          |                             |            |        |          | 79       |                     |           |          |              |             |               |          |          |          | -            |          | 129        |          |           |          |          |          |          |          | $\top$        | ╛         |  |                |
|  |                        | 30       |               |                  | <u> </u> | L        | L        | _            |          |                             |            |        |          | 80       |                     |           |          | _            | _           | $\Box$        | _        | 4        |          | ė i          |          | 130        |          |           | _        | $\Box$   |          |          |          | $\perp$       | 4         |  |                |
|  |                        | 31<br>32 | H             |                  | ├        | H        | ┝        | ╁            | ┝        | $\vdash$                    | -          |        |          | 81<br>82 |                     |           |          | $\dashv$     | $\dashv$    | $\dashv$      | $\dashv$ | $\dashv$ | $\dashv$ | * *          | -        | 131<br>132 | Н        |           | $\dashv$ | $\dashv$ | -        | $\dashv$ | +        | +             | $\dashv$  |  |                |
|  |                        | 33       | H             |                  |          |          | H        | t            |          | <u> </u>                    | -          |        |          | 83       |                     | $\exists$ |          | $\dashv$     | $\dashv$    |               | $\dashv$ | $\dashv$ |          |              |          | 133        | Н        | $\exists$ | ᅥ        | 7        | 7        | ᅥ        | $\top$   | +             | $\dashv$  |  |                |
|  |                        | 34       |               |                  |          |          |          | oxdot        |          |                             |            |        |          | 84       |                     |           |          | $\Box$       |             |               |          |          |          | 4 .5         |          | 134        |          |           | $\Box$   |          |          |          | $\Box$   |               | ]         |  |                |
|  |                        | 35<br>36 |               | _                | -        | <u> </u> | ┞        | ╁            | -        | -                           | _          | 100    | -        | 85<br>86 |                     | -         |          |              |             | $\dashv$      |          | $\dashv$ | $\dashv$ |              | <u> </u> | 135<br>136 |          |           | $\dashv$ | 4        | -        | -        | -        | -             | 4         |  |                |
|  | <b> </b>               | 37       | Н             |                  | $\vdash$ |          | $\vdash$ | $\vdash$     | $\vdash$ | $\vdash$                    | -          |        | <b></b>  | 87       |                     | -         | -        | $\dashv$     | $\dashv$    | $\dashv$      | -        | -        | - 1      | # C          |          | 137        | Н        | $\dashv$  | -        | $\dashv$ | -+       | ᅥ        | $\dashv$ | +             | $\dashv$  |  |                |
|  |                        | 38       |               |                  |          |          |          | L            |          |                             |            | -      |          | 88       |                     |           |          |              |             |               |          |          | - 1      |              |          | 138        |          |           |          |          |          |          |          |               | 1         |  |                |
|  | -                      | 39       | L             |                  | -        | ļ        | _        | _            |          | <u> </u>                    |            |        |          | 89       | Ш                   |           |          | $\dashv$     | _           | 4             | _        |          | 4        |              |          | 139        | Ш        | _         | _        | $\dashv$ | 4        | $\Box$   | $\perp$  | _             | 4         |  |                |
|  | -                      | 40       | Н             |                  | -        | -        | ┝        | -            | -        | ╁                           | -          |        |          | 90<br>91 | -                   | $\vdash$  | $\dashv$ | ┥            | $\dashv$    |               | $\dashv$ |          | $\dashv$ | . 1          |          | 140<br>141 | Н        | $\dashv$  | -        | -        | ┥        | $\dashv$ | +        | +             | $\dashv$  |  |                |
|  |                        | 42       |               |                  |          |          |          |              |          |                             |            | 1      |          | 92       |                     |           |          |              |             | $\dashv$      |          | $\neg$   |          | ;** <u>+</u> |          | 142        |          |           |          | 7        | 7        |          | +        | ╅             | ┨         |  |                |
|  |                        | 43       |               |                  | L        |          |          |              |          |                             |            | -      |          | 93       |                     |           | Ц        |              | _           | $\Box$        | $\Box$   | _        | $\Box$   |              |          | 143        |          |           |          | $\Box$   | $\Box$   |          |          | $\bot$        | $\Box$    |  |                |
|  | -                      | 44<br>45 | Н             |                  | -        | $\vdash$ | $\vdash$ | -            | $\vdash$ | $\vdash$                    | -          | 74     | <u> </u> | 94<br>95 | $\vdash$            | $\vdash$  | $\dashv$ | $\dashv$     | -           | -             | -        | $\dashv$ | -        |              |          | 144<br>145 | $\vdash$ |           | $\dashv$ | 4        | -        | _        |          | +             | $\dashv$  |  |                |
|  |                        | 46       | $\vdash$      | _                | -        |          | $\vdash$ | $\vdash$     |          | $\vdash$                    | $\vdash$   |        |          | 96       | $\vdash$            | -         |          | $\dashv$     | $\dashv$    | $\dashv$      | $\dashv$ | +        | $\dashv$ | - i.         |          | 146        | H        | $\dashv$  | +        | +        | $\dashv$ | $\dashv$ | +        | +             | $\dashv$  |  | .:             |
|  |                        | 47       |               |                  |          |          |          |              |          |                             |            |        |          | 97       |                     |           |          |              |             |               |          |          |          |              |          | 147        |          |           |          |          | .]       |          |          | 土             |           |  | . <del>:</del> |
|  | -                      | 48<br>49 | Ц             | _                | -        | -        | -        | -            | -        |                             | <u> </u>   | 2 .    |          | 98<br>99 | $\vdash$            |           | _        | $\dashv$     | _           | 4             | 4        | $\dashv$ | -        |              |          | 148<br>149 | $\vdash$ | -         |          | 4        | 4        |          | -        | +             | 4         |  |                |
|  | -                      | 50       | $\vdash$      |                  | $\vdash$ | $\vdash$ | $\vdash$ | $\vdash$     | $\vdash$ |                             | -          |        | -        | 100      | Н                   |           | $\dashv$ | $\dashv$     | $\dashv$    |               | $\dashv$ | $\dashv$ | $\dashv$ |              |          | 150        | $\vdash$ |           | $\dashv$ | ᆉ        | +        | -        | $\dashv$ | +             | $\dashv$  |  |                |
|  |                        |          |               | _                |          |          | ٠.       |              |          |                             |            |        |          |          | _                   |           |          |              | _           |               |          |          |          |              |          |            |          |           |          |          |          |          |          |               |           |  |                |

Application No.

Index of Claims

Applicant(s)